

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092953 A3

(51) International Patent Classification⁷: **G06F 9/44**, 9/45

(21) International Application Number:
PCT/IB2004/050425

(22) International Filing Date: 13 April 2004 (13.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03101032.5 16 April 2003 (16.04.2003) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **POPP, Ondrej**
[NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **ELEVELD, Koop, J.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

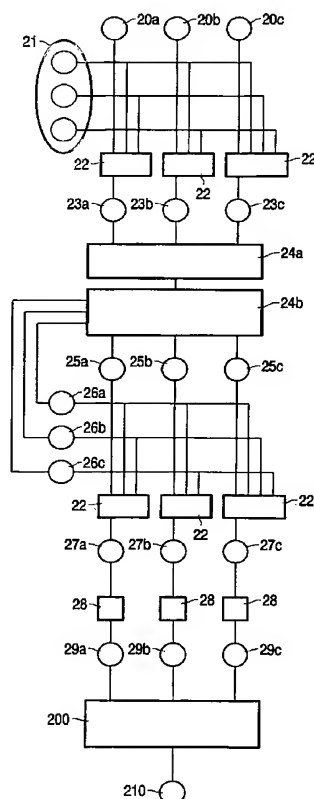
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE,

[Continued on next page]

(54) Title: REGENERATING HEADER FILES OUT OF PREPROCESSED AND AFTERWARDS MODIFIED SOURCE FILES



(57) Abstract: A plurality of source files (20) and one or more header files (21) are provided. The header files that contain information that several of the source files refer to. The original files are preprocessed, each to generate a respective preprocessed file, said preprocessing comprising expanding the several of the source files with the information from a first header file. A collective processing step (24a) is applied to make coordinated changes to information from the preprocessed files. The changed preprocessed files are used to regenerate modified source (25) and header (26) files. For regenerating (24b) the first header file, one of the preprocessed files is selected on the basis of detection that the selected file elaborates the information from the first header file. The first header file (26a) is regenerated from the information in the selected file.



AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent

(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

— with international search report

(88) Date of publication of the international search report:

2 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Inter: 1al Application No
PCT/IB2004/050425

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F9/44 G06F9/45		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G06F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, IBM-TDB, WPI Data, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ANDREWS K ET AL: "MACRO AND FILE STRUCTURE PRESERVATION IN SOURCE-TO-SOURCE TRANSLATION" SOFTWARE PRACTICE & EXPERIENCE, JOHN WILEY & SONS LTD. CHICHESTER, GB, vol. 26, no. 3, March 1996 (1996-03), pages 281-292, XP000655563 ISSN: 0038-0644 abstract figure 1 page 282, lines 22-28 page 283, lines 1-11 column 283, lines 20-23 column 284, lines 7-23 page 287, lines 7-10 <div style="text-align: center;">----- -/--</div>	1-17
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
° Special categories of cited documents :		
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 48%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search	Date of mailing of the international search report	
1 September 2005	23/09/2005	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Uhlmann, N	

INTERNATIONAL SEARCH REPORT

Inter national Application No
PCT/IB2004/050425

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 6 006 031 A (ANDREWS ET AL) 21 December 1999 (1999-12-21) abstract column 1, lines 15-20 column 2, lines 36-49 column 13, lines 20-34 column 15, lines 2,3 column 15, lines 45-49 column 16, line 63 - column 17, line 3 column 18, line 18 - column 19, line 31</p> <p>-----</p>	1-17
A	<p>"SOURCE DEBUG VIEW INFORMATION ARCHITECTURE" IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 36, no. 9B, 1 September 1993 (1993-09-01), pages 307-310, XP000397163 ISSN: 0018-8689 the whole document</p> <p>-----</p>	9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050425

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6006031	A	21-12-1999	US	5842204 A		24-11-1998
			US	5768564 A		16-06-1998
			CA	2204118 A1		09-05-1996
			EP	0789885 A2		20-08-1997
			JP	11501421 T		02-02-1999
			WO	9613784 A2		09-05-1996
			CA	2201882 A1		18-04-1996
			DE	69516891 D1		15-06-2000
			DE	69516891 T2		05-10-2000
			EP	0789875 A1		20-08-1997
			JP	10508398 T		18-08-1998
			US	6031993 A		29-02-2000
			WO	9611437 A1		18-04-1996
